Abstract of the Disclosure

An impact-reinforced piezocomposite transducer array comprises a load supporting structure having a plurality of cells, each of said cells comprises a piezocomposite transducer element. The load supporting structure comprises a honeycomb structure having a plurality of multi-sided cells or the structure comprises a plurality of cylindrical cells. The piezocomposite element includes a plurality of piezoceramic rods encapsulated in a polymeric matrix to form a 1-3 composite body. The transducer array may be used as a hydrophone or a transmitter in a rugged environment such as on the hull of an icebreaker ship.

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